

Our technologies and services



Water

**Treatment and reuse of wastewater/
Supply of pure water and chemical liquids**

Water control is an integral technology for many manufacturing plants. In the manufacturing process, fine dust is removed with a special liquid, such as pure water or a chemical liquid. We also provide systems for recycling liquids and systems for purifying liquids before discharging.



Air

**Clean room/Air conditioning equipment
Exhaust gas treatment/Dust collection and deodorization equipment**

Air control technology is required for various sites. We provide exhaust gas purification systems to road tunnel construction sites and air circulation systems to agricultural and livestock facilities as a heat countermeasure to increase their yield. We also support the installation of clean rooms in electronic component plants.



Soil

**Investigation of soil and groundwater pollution and purification
Building dismantling/Asbestos processing**

Our soil control technologies are mainly related to the purification of polluted soil and groundwater. We can determine the area, concentration and type of pollution through the assessment of soil conditions using engineering expertise. We can also provide appropriate purification treatment in accordance with the conditions of the pollution.



Energy

**Energy saving diagnosis/Measures/Greening
Production and storage of energy/Solar power generation**

Our energy control technologies are broadly classified into two categories: energy saving and energy production/storage. In the field of energy saving, we provide systems that monitor the energy consumption of the facility and reduce the consumption. In the field of energy production/storage, we support the installation and operation of solar power generation equipment.



Human resources

**Facility management (operation agency service)
Regular diagnosis/Improvement proposals**

What we provide is not only a system. One of our strengths is that we can make proposals including know-how to operate the system. We provide support such as performing daily operations on behalf of our customers as well as finding issues through regular maintenance and making improvements.

Our Solution Examples of value we provide (2)

We introduce our environmental business activities by giving examples in each field.

Agriculture and livestock area
Solving conflicting issues, increasing yield and reducing costs

Improving the environment for growing agricultural and livestock products, thereby reducing power consumption and increasing productivity

Ventilation fan for livestock

Preventing frost damage in tea fields and orchards and protecting crops from a natural disaster

Anti-frost fans

Locally based solutions
Ensuring the stable operation of nationwide customer facilities with our thorough support

Maintaining high-efficiency operation by constantly monitoring the operating status of energy systems and quickly responding to abnormalities

**Facility management/
Energy system management and maintenance**

Investigating and diagnosing the deterioration of air conditioning systems and other equipment and suggesting renewal as needed

**Maintenance service
(air conditioners, blowers, etc.)**

Panasonic

Company Profile



For the Environment and All of Us, into the Future

Panasonic Environmental Systems & Engineering Co., Ltd.

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<https://panasonic.co.jp/ls/peseng/>



Combining “Earth-Friendly” and “Make Someone Happy”

with our technology



Enhancing the value of customers by establishing an advanced control cycle of water, air, soil, and energy as the infrastructure of business activities

We can provide solutions for two conflicting issues--industrial development and the reduction of environmental impact--by using various environmental purification and energy-related technologies cultivated by the Panasonic Group. Environmental measures are no longer an investment that puts pressure on businesses. Our engineering helps customers save costs by Reduction of waste, improving productivity, and thereby realizing efficient and effective business operation. We can also provide customized solutions for the issues of each customer and company by responding to any needs from the customer's perspective. Combining "Earth-Friendly" and "Make Someone Happy" with our technology. We are committed to realizing our thoughts in this management slogan for customers all over the world.

Energy-saving diagnosis



Assistance for reducing energy consumption based on preliminary surveys and interviews

Energy-saving diagnosis/Improvement proposals

Maintenance



Frequent inspections and maintenance to extend the lives of air conditioners and other equipment

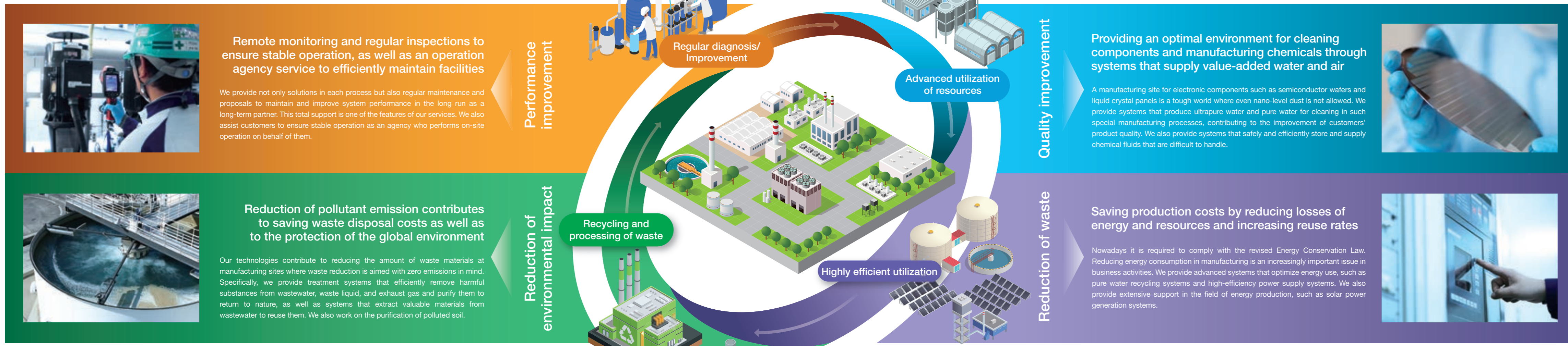
Maintenance



Contribution to ensuring stable operation by dealing with on-site issues on behalf of the staff of the facility

Facility management

Advanced utilization of environmental resources by our unique engineering and support system makes it possible to realize high-quality production with high efficiency and low environmental impact.



Supply of functional industrial water



Stable supply of high-quality ultrapure water required for manufacturing electronic components, etc.

Ultrapure water production system



Advanced management and appropriate supply of strong acids, strong alkalis, other hazardous chemicals and chemical liquids

Chemical liquid supply system

Space purification



Optimal ventilation of road tunnels based on data measured by sensors

Tunnel ventilation equipment

Resource recovery



Converting silicon sludge in wastewater into a valuable resource without using chemical liquids

Valuable material (silicon) recovery



Treatment of fluorine-containing water with chemical liquids to reuse it as a raw material for phosphoric acid plants

Fluorine-containing wastewater treatment system

Emission purification



Efficient treatment of wastewater and waste liquids in accordance with customer needs

Wastewater and waste liquid treatment system



Development of systems that remove harmful substances from exhaust gas

Exhaust gas treatment system

Soil purification



Adequate pollution assessment and appropriate purification while considering the surrounding environment

Countermeasures for soil and groundwater pollution

Reuse of functional industrial water



Locally recycling chemical liquids used in plants to reduce the manufacturing cost of the chemical liquids

Chemical liquid recycle system



Purification of used pure water to reuse it as pure water

Pure water recycle system

Increasing efficiency of energy-related facilities



Proposal of optimal equipment in accordance with the capacity of individual production sites

Compressed air



Reuse of waste heat

Heat sources/boilers

Energy exchange



Achievement of both stable supply of high-purity water for cooling machines and energy saving by utilizing waste heat

Heat exchange (energy recovery) system

Energy production



Realizing a stable power generation environment regardless of weather in cooperation with electric power companies

Solar power generation

Our Solution

Examples of value we provide (1)

We introduce our environmental business activities by giving examples in each field.

Resource recycling area

Effective use of environmental resources to reduce business costs and improve production efficiency

Manufacturing/ use

Recycling process

Emission

The collective management of pure water and waste water in a device plant contributes to its stable operation and the reduction of manufacturing costs.

Pure water supply/wastewater treatment facility

Contribution to SDGs 6

Reducing running costs by using renewable energy for air conditioning in plants

Solar power generation equipment

Contribution to SDGs 7

Chemical fluid area

Providing earth-friendly solutions for customer issues

In-house development of industrial chemical liquids that are easy to recycle and cost less for treatment in accordance with customers' purposes and issues

Development and sales of chemical liquids

Contribution to SDGs 12

Supply and reuse of chemical liquids used in device plants Reducing manufacturing costs by increasing recycling rate

Chemical supply/recycling system

Contribution to SDGs 12

Infrastructure area

Providing a safe and secure air environment with tunnel ventilation and air purification technology

Ensuring the safety of tunnels by preventing exhaust gas from vehicles and smoke in the event of a fire from remaining in the tunnel

Jet fan

Contribution to SDGs 8

Removing dust blown out of the tunnel by jet fans to discharge purified air to the outside

Electric dust precipitator

Contribution to SDGs 9